

Control of wave amplitude by phase mismatching variation in the CARS spectroscopy of organic molecules

Fishman A., Skvortsov A.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

New possibilities for the resolution of Raman bands, provided by polarization sensitive CARS in combination with a phase-mismatching technique, are presented. It is shown that the variation of the wave mismatching and the ratio of windows thickness makes obtaining the additional information about close Raman resonances possible.
